Author Index

Senior authors who are not first-named are indicated by an asterisk.

Acholonu, D W, see Eng Akazawa, Housei, see Urisu Akiyama, Takeo, see Ushijima Andreae, M O, see de Bettencourt Ashby, J R and Craig, 173–181 Assadourian, L and Gau.* 167–172 Averty, Bernard, see Michel

Babin, V N, see Kalennikov Barabanov, DI, see Lukevics Bashkirova, S A, see Pola Batley, Graeme E and Scammell, 99-105 Bellama, Jon M, Meyer and Pellenbarg, 107-109; see also Eng Besançon, J, see Lavastre Biddle, Brian N and Gray, 439-441 Biesemans, Monique, see Boualam; Meriem Blunden, S J, Hill and Sutton, 159-165 Bodiguel, J, Meunier and Gautheron, 479 Boualam, Mohammed, Willem, Biesemans and Gielen, 497 Brinckman, F E, see Eng Brossier, P. see Lavastre Bruce, M I, Liddell and Nicholson, 349 (erratum) Bruchet, A, see Quevauviller Byrne, Anthony R, Tusek-Znidaric, Puri and Irgolic, 25-32

Carhart, Homer W, see Pellenbarg Carty, P and White, 51-56 Chau, A S Y, see Zhang (Shuzhen) Chau, Y K, see Scott; Zhang (Shuzhen) Craig, P J, see Ashby; Parks

de Bettencourt, A M M and Andreae, 111-116 de Vos, Dick, see Meriem Dedov, A G, see Karakhanov Deguchi, Yuichi, see Kuniya Donard, O F X, see Quevauviller

Eng, G, Tierney, Olson, Brinckman and Bellama, 33-37; Eng, George and Acholonu, 131-134

Feng, Han-yu, see Wang Francès, J-M, see Jousseaume Fu, Fangxin, see Zhang Fujita, Masato, see Shimo Furuse, Mitsuya, see Matsumura

Gau, G*(Assadourian and Gau), 167–72 Gautheron, B, see Bodiguel Gielen, Marcel, see Boualam; Meriem; Zhang Gokak, D T, Kamath and Ram, 39–44 Gouron, V, see Jousseaume Goyal, R B, see Singh (D) Gray, J S, see Biddle Guselnikov, L E, see Pola Hada, Hiroshi, see Sato
Hamasaki, Tetsuo, Nagase, Sato, Kito and Ose, 83–90;
see also Nagase
Hanabusa, Mitsuga and Ikeda, 289–293
Hanaoka, Ken'ichi, Motoya, Tagawa and Kaise, 427–430;
Hanaoka, Ken'ichi, Tagawa and Kaise, 435–438
Hashimoto, Takuya, Kitazawa, Nakabayashi, Shiraishi, Suemune, Yamamoto and Koinuma, 325–330
Hata, M, see Maeda
Hill, R, see Blunden
Hiratani, Yuji, see Ohki
Hsieh, Hung-Pin, see Lu
Hu, Chun, see Zhang

Ichida, Masanori, see Kuniya
Ignatovich, L. M, see Lukevics
Ikeda, Masashi, see Hanabusa
Ilger, Drew, see Irgolic
Imamura, Takahashi, see Nagaoka
Irgolic, Kurt J, Spall, Puri, Ilger and Zingaro, 117–124;
see also Byrne
Isemura, M, see Maeda
Itoh, Kiminori, Okamoto, Wakita, Niikura and Murabayashi,
295–301

Jousseaume, B, Gouron, Pereyre and Francès, 135-138

Kaise, Toshikazu, see Hanaoka Kajitani, Masatsugu, see Ushijima Kalennikov, E A, Kuzina, Yuran, Mikhailov, Popova,* Pendin and Babin, 471 Kamath, B V, see Gokak Karakhanov, E A, Narin and Dedov, 445 Kawasaki, Masahiro and Nishi, 247-255 Kikuchi, T, see Sugitani Kikuzono, Y and Maeda, 331-336 Kitazawa, Koichi, see Hashimoto Kito, Hideaki, see Hamasaki; Nagase Koinuma, Hideomi, see Hashimoto Kook, Sam Choon, Kwong and Kumar Das, 409-415 Kotani, S, Shiina and Sonogashira, 417-425 Koyano, Inosuke, see Nagaoka Kuma, Hitoshi, see Shimo Kumar Das, V G, see Kook Kuniya, Yasuo, Deguchi and Ichida, 337-348 Kuran, Witold, 191-194 Kuroda, Shigeru, see Sato Kuzina, S I, see Kalennikov Kwong, Ng Meng, see Kook

Lang, Heinrich, see Seyferth
Lavastre, I, Besançon, Brossier and Moise, 143-149
Lei, Zi-qiang* (Wang et al.), 517
Lelieveld, Peter, see Meriem
Li, W C, see Zhang (Shuzhen)
Liddell, M J, see Bruce

Liu, Yong-hong, see Wang Lo Giudice, Maria Teresa, see Ruisi Lu, Fung-Jou, Hsieh, Yamauchi and Yamamura, 860 Lukevics, E, Barabanov and Ignatovich, 379-383

Maeda, T, Hata, Isemura and Yako, 319-323; see also Kikuzono

Mahieu, Bernard, see Meriem Marr, Iain L, see Martin-Landa

Martin-Landa, Isabel, Pablos and Marr, 399-407

Masuoka, Toshio, see Nagaoka

Matsudo, Haruo, see Nomura

Matsumura, Yoshimi, Ono-Ogasawara and Furuse, 71-78

Matsuo, Taku, see Sakaguchi Matveychev, P M, see Pola

Mayer, R, see Pola

Meriem, Abdelkader, Willem, Biesemans, Mahieu, de Vos,

Lelieveld and Gielen, 195-201 Meunier, P, see Bodiguel Meyer, Stephen R, see Bellama Michel, Pierre and Averty, 393-397 Mikhailov, A I, see Kalennikov Mivazaki, Shin-Ichiro, see Nomura Moise, C, see Lavastre Motoya, Tomoko, see Hanaoka Murabayashi, Masayuki, see Itoh

Nagamura, Toshihiko, see Sakaguchi

Nagaoka, Shin-ichi, Koyano, Imamura and Masuoka, 269-276

Nagase, Hisamitsu, Hamasaki, Sato, Kito, Yoshioka and Ose,

91-97; see also Hamasaki Nakabayashi, Masaaki, see Hashimoto Nakano, Takahiro, see Nomura Nalwa, Hari Singh, 203-206, 349-377 Narin, S Yu, see Karakhanov Neary, B P, see Parks Nicholson, B K, see Bruce

Niikura, Hiroshi, see Itoh Nishi, Nobuyuki, see Kawasaki

Nomura, Ryôki, Miyazaki, Nakano and Matsuda, 513

Ohki, Yoshimasa and Hiratani, 277-287 Ohmori, Tadayoshi, see Ukisu Okamoto, Tohru, see Itoh Olson, G J, see Eng Ono-Ogasawara, Mariko, see Matsumura Ose, Youki, see Hamasaki; Nagase Ozburn, G, see Parks

Pablos, Fernando, see Martin-Landa Pan, Huade, see Zhang Parks, J W, Craig, Neary, Ozburn and Romani, 487 Pellenbarg, Robert E* (Bellama et al.), 107-109; Pellenbarg, Robert E and Carhart, 79-82 Pendin, A A, see Kalennikov

Pereyre, M, see Jousseaume

Pola, J, Polyakov, Guselnikov, Matveychev, Bashkirova,

Tláskal and Mayer, 57-64 Polyakov, Yu P, see Pola

Popova, L V* (Kalennikov et al.), 471 Puri, B K (Bal K), see Irgolic; Byrne

Quevauviller, Ph, Bruchet and Donard, 125-129

Rai, A K, see Saxena (Prabhu N) Rais-Firouz, A, see Scott Ram, R N, see Gokak Romani, D, see Parks Ruisi, Giuseppe and Lo Giudice, 385-391

Saitou, T* (Sugitani et al.), 309-318 Sakaguchi, Hiroshi, Nagamura and Matsuo, 257-260

Sato, Hiroyasu, 207-219 Sato, Shinri, see Ukisu

Sato, Takahiko, see Hamasaki; Nagase

Sato, Tomoo, Kuroda, Takami, Yonezawa and Hada, 261-268

Saxena, A K, see Saxena (Prabhu N)

Saxena, Prabhu N, Saxena, Saxena and Rai, 65-67

Saxena, S, see Saxena (Prabhu N) Scammell, Marcus S, see Batley

Scott, B F, Chau and Rais-Firouz, 151-157

Seyferth, Dietmar and Lang, 463

Shiina, K, see Kotani

Shimizu, Kunio, see Ushijima

Shimo, Nobuo, Fujita and Kuma, 303-307

Shiraishi, Tadashi, see Hashimoto

Singh, D, Goyal and Singh, 45-50

Singh, R V, see Singh (D) Sonogashira, K, see Kotani

Spall, Dale, see Irgolic

Sudoh, Susumu, see Ushijima

Suemune, Youiche, see Hashimoto

Sugimori, Akira* (Ushijima et al.), 221-228

Sugimoto, Y, see Sugitani

Sugitani, H, Kikuchi, Sugimoto and Saitou,* 309-318

Sun, Yunhong, see Zhang Sutton, S E, see Blunden

Tagawa, Shoji, see Hanaoka Takahashi, Jun-ichi, see Urisu Takami, Akinori, see Sato Tiekink, Edward R, 1-23 Tierney, E J, see Eng

Tláskal, J, see Pola

Tusek-Znidaric, Magda, see Byrne

Ukisu, Yuji, Sato and Ohmori, 243-246 Urisu, Tsuneo, Takahashi, Utsumi and Akazawa, 229-241 Ushijima, Hirobumi, Sudoh, Kajitani, Shimizu, Akiyama and Sugimori,* 221-228 Utsumi, Yuichi, see Urisu

Wakita, Shuhei, see Itoh Wang, Yun-pu, Lei,* Feng and Liu, 517 White, S, see Carty Willem, Rudolph (Rudolf), see Boualam; Meriem; Zhang

Yako, T, see Maeda Yamamoto, Takakazu, see Hashimoto Yamamura, Yukio, see Lu Yamauchi, Hiroshi, see Lu Yonezawa, Yoshiro, see Sato Yoshioka, Yoshitada, see Nagase Yuran, V S, see Kalennikov

Zhang, Shuzhen, Chau, Li and Chau, 431-434 Zhang, Zhengquan, Pan, Hu, Fu, Sun, Willem and Gielen, 183-190

Zingaro, Ralph A, see Irgolic

Subject Index

etiology, 507-512

Activation of alkanes, 521-523 metabolism of arsenobetaine by Liolophura japonica, Adsorption sampling of airborne arsine and silanes, 71-78 MOs of alkylarsines, 331-336 toxicity of Group IVA organometallic compounds to preparation for microelectronic devices, 209-213 Selenastrum capricornutum, 33-37 refractory species in estuarine waters, 111-116 Alginate, sodium, 261-268 thermal decomposition of trialkylgallium on GaAs surfaces, Aluminium compounds dissociative photoionization of methylaluminium uptake and binding in Laccaria amethystina, 25-32 compounds, 269-276 epitaxial growth of AlGaAs, using high-purity trimethylaluminium, 319-323 metabolism of arsenobetaine, 427-430, 435-438 photodeposition of aluminium from dimethylaluminium toxicity of Group IVA organometallic compounds to hydride, 289-293 Escherichia coli, 33-37 preparation for microelectronic devices, 210-212 Bactericides Analytical methods silicon complexes with heterocyclic thiosemicarbazones, adsorption sampling and AA spectrophotometry of arsine and silanes, 71-78 arsenic compounds in natural gas samples, 117-124 toxicity of organotitanium complexes to Columba livia, butyltin compounds identified by GC with FPD, 399-407 65-67 Bismuth compounds butyltin species detected by AE spectroscopy, 151-157 dissolved arsenic refractory to hydride generation method, laser-ignited mild explosive reaction, 303-307 111-116 low-temperature photodeposition of oxide films, 325-330 environmental polyorganosiloxanes detected by NMR Blackfoot disease, 507-512 spectroscopy, 107-109 Book reviews, 69, 139-141 ethylation products of organotin compounds, 173-181 immunoassay of drugs using organometallic markers, Cadmium compounds 143-149 non-linear optics of complexes, 358-359 organotin compounds ethylated and extracted from physicochemical properties of dimethylcadmium, 337-348 seawater, 393-397 preparation for optoelectronic devices, 213-214 solvent extraction and ICP spectrophotometry of siloxanes Calcium compounds in sediments, 79-82 low-temperature photodeposition of oxide films, 325-330 Antibacterials, see Bactericides Carboxylates, organotin, 1-23, 159-165, 195-201 Antifertility activity silicon complexes with heterocyclic thiosemicarbazones, latent organotin catalysts for silicone curing and 45-50 polyurethane preparation, 135-138 Antifouling paint mechanism of hydroxylation of aromatic hydrocarbons by impact on biota in Australian estuaries, 99-105 hydrogen peroxide, 445-461 Antifungals, see Fungicides onium chlorometallates for hydrogermylation of phenylacetylene, 379-383 Antimony compounds esterification catalyst, 513-516 organoalkalis for high-pressure ethylation of alkylbenzenes, preparation for microelectronic devices, 213 167-172 stibine-substituted cobalt metal cluster catalysts for organozinc-oxygen compounds for copolymerization and hydroformylation, 517-519 cyclization reactions, 191-194 palladium complexes for adamantane activation, 521-523 Antitumour activity phenylmethinyltricobalt enneacarbonyl catalysts for bis(alkoxycarbonylmethyl)tin dibromides and complexes, hydroformylation, 517-519 diaryl dichloride complexes of tin, 439-441 rhodium complex for hydrogenation, 39-44 dibutyltin derivatives of substituted salicylic acids, 497-506 triphenylstibine-phosphorus(V) sulphide system for dibutyltin(IV) carboxylate derivatives, 195-201 esterification, 513-516 Ceratocystis ulmi, 131-134 Arsenic compounds analysis of airborne arsine by adsorption sampling and AA Chemical vapour deposition application of synchrotron irradiation, 236-239 spectrophotometry, 71-78 arsine-substituted cobalt metal cluster catalysts for laser-ignited mild explosive reaction, 303-307 hydroformylation, 517-519 low-temperature formation of metal oxide films, 325-330 cycling and metabolism in aquatic environments, 114-115 for microelectronic devices, 207-219 determination in natural gas samples, 117-124 photochemical deposition of aluminium film, 289-293 epitaxial growth of AlGaAs using high-purity Chromatography trimethylaluminium, 319-323 speciation of butyltins by GC with FPD, 399-407 Chromium compounds fluorescent complex in well water and blackfoot disease

non-linear optics of complexes, 356-357

organochromium markers of drugs for immunoassay, 143-149

Cobalt compounds

electrochemical behaviour of cobalt(III) complexes, 221-228 non-linear optics of complexes, 357, 369, 373 organochromium markers of drugs for immunoassay,

phenylmethinyltricobalt enneacarbonyl catalysts for hydroformylation, 810-812

Colloids, 261-268

Columba livia, 65-67

Copolymerization

organozinc-oxygen catalysts, 191-194

Copper compounds

catalysts for hydroxylation of aromatic hydrocarbons, 452-453, 454

impact on biota in Australian estuaries, 103-104 low-temperature photodeposition of oxide films, 325-330 non-linear optics of complexes, 360-361, 365-366, 373 phthalocyanine sheet polymers, 203-206

Cyclization

organozinc-oxygen catalysts, 191-194

Diketonates

use in low-temperature photodeposition of metal oxide films, 325-330

Dutch Elm disease, 131-134

Electronics, see Microelectronics, Optoelectronics Epitaxial growth

AlGaAs, using high-purity trimethylaluminium, 319-323 for microelectronic devices, 207-219 application of synchrotron irradiation, 238-240, 277-287

MOs of alkylarsines (source gases for GaAs), 331-336 Escherichia coli, 33-37

Esterification

catalysed by triphenylstibine-phosphorus(V) sulphide system, 513-516

Estuaries

impact of tributyltin on biota, 99-105

refractory arsenic species and arsenic cycling, 111-116

application of synchrotron irradiation, 229-236 thin films of peroxopolytungstic acids, 297-298 Ethylation of organotin compounds, 173-181, 393-397

bioindicators for mercury in rivers, 487-495 detection of butyltin species by AE spectroscopy, 151-157 speciation of butyltin species by GC with FPD, 399-407 toxicity of organotin compounds to Oryzias latipes, 91-97 Flame retardants, 51-56

Fungi

uptake of arsenic compounds in Laccaria amethystina, 25-32 **Fungicides**

effect of triorganotin compounds on Ceratocystis ulmi,

silicon complexes with heterocyclic thiosemicarbazones, 45-50

Gallium compounds

epitaxial growth of AlGaAs, using high-purity trimethylaluminium, 319-323 non-linear optics of complexes, 364

preparation for microelectronic devices, 209-213

thermal decomposition of trialkylgallium on GaAs surfaces, 277-287

UV photodissociation of trimethylgallium, 147-155 Germanium

epitaxial growth under synchrotron irradiation, 239-240 Germanium compounds

catalytic hydrogermylation of phenylacetylene, 379-383 laser-ignited mild explosive reaction, 303-307 non-linear optics of polygermane, 367-368

toxicity and total surface area, 33-37 Gold

photochemical formation of silver-gold composite colloids, 261-268

Hydroformylation catalysts, 517-519

Hydrogermylation of phenylacetylene, 379-383 Hydroxylation of aromatic hydrocarbons, 445-461

Indium compounds

preparation for microelectronic devices, 211-213 UV photodissociation of trimethylindium, 147-155 Iron compounds

catalysts for hydroxylation of aromatic hydrocarbons, 445-461

effect of ferrocene derivatives on photo-oxidation of polyethylene, 471-477

ferrocene markers of drugs for immunoassay, 143-149 flame retarding/smoke-suppressing system for ABS blends,

non-linear optics, 355-361, 367, 372, 373 photolysis of iron pentacarbonyl, 243-246

Laccaria amethystina

arsenic uptake and binding, 25-32

irradiation of solid organosilicon polymers, 57-64 laser-ignited mild explosion reaction, 303-307 UV photodissociation of organometallic compounds adsorbed on a cryosubstrate, 147-155

Leaching

tin compounds from PVC materials, 125-129 Lead compounds laser-ignited mild explosive reaction, 303-307

non-linear optics of complexes, 365 toxicity and total surface area, 33-37 Liolophura japonica, 427-430

Manganese compounds preparation for optoelectronic devices, 213

Mercury compounds

bioindicators in rivers, 487-495 non-linear optics of complexes, 358

Metal oxides

preparation for microelectronic devices, 214-215

Metallophthalocyanines

for microelectronic devices, 216-217 non-linear optics, 364-367, 373

sheet polymers, 203-206, 217

Metals

thin-film deposition for microelectronic devices, 214

Methylation of inorganic tin, 83-90

Microelectronics

applications of organometallic compounds, 207-219 Molecular orbitals of alkylarsines, 331-336

Molluscs

metabolism of arsenobetaine by Liolophura japonica, 427-430

Molybdenum compounds

non-linear optics of complexes, 356-357, 358, 371

Mutagenicity

triorganotin compounds in mouse, 409-415

Natural gas

determination of arsenic content, 117-124

Nickel compounds

metal poly-ynes, 417-425

non-linear optics of complexes, 369

phthalocyanine sheet polymers, 203-206

NMR spectroscopy

bis(alkoxycarbonylmethyl)tin dibromides and complexes, 183-190

detection of environmental polyorganosiloxanes, 107-109

Optical properties

non-linear optics of organometallic compounds, 257-260, 349-377

thin films of peroxopolytungstic acids, 295-301

Optoelectronics applications, 207-219, 349-377

ruthenium-bipyridine complexes, 257-260

synchrotron radiation-stimulated photochemical reaction, 229-241

thin films of peroxopolytungstic acids, 295-301

Oryzias latipes, 91-97

Osmium compounds

onium chloro-osmate catalysts for hydrogermylation, 379-383

Oysters, 99-105

Palladium compounds

complexes for catalytic adamantane activation, 521-523 metal poly-ynes, 417-425

non-linear optics of complexes, 357, 359-360, 364, 366 Phosphorus compounds

esterification catalyst, 513-516

metal poly-ynes containing main-chain transition metals and phosphine, 417-425

phosphine-substituted cobalt metal cluster catalysts for hydroformylation, 517-519

preparation for microelectronic devices, 211-212

Photochemistry

dissociative photoionization of methylaluminium compounds, 269-276

effect of ferrocene derivatives on photo-oxidation of polyethylene, 471-477

formation of silver-gold composite colloids, 261-268 low-temperature photodeposition of metal oxide films, 325-330

organometallic compounds for microelectronic devices, 214-215

photodeposition of aluminium from dimethylaluminium hydride, 289-293

photolysis of iron pentacarbonyl, 243-246

synchrotron-stimulated reactions, 229-241, 269-276 UV photodissociation of organometallic compounds

adsorbed on a cryosubstrate, 147-155

Phthalocyanines

microelectronic applications, 216-217

non-linear optics, 360-361, 373

see also Metallophthalocyanines

Platinum compounds

metal poly-ynes, 417-425

non-linear optics of complexes, 357, 359-360, 361, 364, 365, 369

onium chloroplatinate catalysts for hydrogermylation, 379-383

Polymers

effect of ferrocene derivatives on photo-oxidation of polyethylene, 471-477

flame retarding/smoke-suppressing system for ABS blends,

laser evaporation of solid organosilicon polymers, 57-64 leaching of tin compounds from PVC materials, 125-129 metal poly-ynes containing main-chain transition metals, 417-425

metallation of Nicalon polycarbosilane, 463-469 metallophthalocyanine sheet polymers, 203-206, 217 non-linear optics, 362-364, 367-369

organometallic polymers for microelectronic devices, 216-217

organozinc-oxygen catalysts for copolymerization and cyclization reactions, 191-194

polymer-bound metal catalysts, 379-383

poly(propylene carbonate) synthesis with

organozinc-oxygen catalysts, 191-194 polysiloxanes (silicones), see Silicon compounds

polyurethane preparation with latent organotin catalysts, 135 - 138

thermal decomposition of silicon-containing aromatic polyimide film, 309-318

Potassium compounds

catalysts in high-pressure ethylation of alkylbenzenes, 167-172

Rhenium compounds

non-linear optics of complexes, 357, 373

Rhodium compounds

ethylenediamine bis(triphenylphosphine) monochlororhodium, 39-44

onium chlororhodate catalysts for hydrogermylation, 379-383

Ruthenium compounds

349 (erratum)

non-linear optics of complexes, 359, 371-372 onium chlororuthenate catalysts for hydrogermylation,

optical properties of bipyridine complexes, 257-260

Sampling methods

adsorption of airborne arsine and silanes, 71-78 bioindicators for mercury compounds in rivers, 487-495

Sediments

analysis for siloxanes in estuarine sediment, 79-82 detection of butyltin species by AE spectroscopy, 151-157 detection of environmental polyorganosiloxanes, 107-109 extraction of butyltin compounds, 431-434 metabolism of arsenobetaine by bacteria, 435-438 speciation of butyltin species by GC with FPD, 399-407

Selenastrum capricornutum, 33-37

Selenium compounds

non-linear optical properties, 373

preparation for optoelectronic devices, 213-214

etching and epitaxial growth under synchrotron irradiation, 233-234, 235-236, 238-239

Silicon compounds

adsorption by silica gel of airborne arsine and silanes, 71-78 analysis of airborne silane and dichlorosilane by adsorption sampling and AA spectrophotometry, 71-78

biologically active complexes, 45-50

curing of polysiloxanes with latent organotin catalysts, 135-138

Synchrotron radiation

393-397 Thermal decomposition

Synthesis

compounds, 269-276

applications, 229-241

benzenic compounds, 479-486

dissociative photoionization of methylaluminium

stimulation of photochemical reaction for semiconductor

metal poly-ynes containing main-chain transition metals,

organotin derivatives of N-benzoylglycylglycine, 385-391

zirconocene complexes for synthesis of dichalcogenated

Tetraethylborate ethylation of tin compounds, 173-181,

deposition of siloxanes in sediments, 79-82 organotin oxides and carboxylates, 159-165 silicon-containing aromatic polyimide film, 309-318 detection of environmental polyorganosiloxanes, 107-109 trialkylgallium on GaAs surfaces, 277-287 etching and epitaxial growth under synchrotron irradiation, Tin compounds 229-241 abiological methylation of inorganic tin, 83-90 laser evaporation of solid organosilicon polymers, 57-64 metal poly-ynes containing disilane and disiloxane, analysis of ethylated organotin compounds, 173-181, 417-425 metallation of Nicalon polycarbosilane, 463-469 antitumour activity of diaryltin dichloride complexes, non-linear optics, 361-362, 365, 366, 367-369, 370, 373 bacterial metabolism of arsenobetaine, 427-430, 435-438 thermal decomposition of silicon-containing aromatic bis(alkoxycarbonylmethyl)tin dibromides and complexes, polyimide film, 309-318 toxicity and total surface area, 33-37 Silicones (Polysiloxanes), see Silicon compounds detection of butyltin species by AE spectroscopy, 151-157 dibutyltin(IV) carboxylate derivatives, 195-201 photochemical formation of silver-gold composite colloids, extraction of butyltin compounds from sediments, 431-434 impact of tributyltin on estuarine biota, 99-105 Smoke suppressants, 51-56 laser-ignited mild explosive reaction, 303-307 Sodium compounds latent organotin catalysts for silicone curing and catalysts in high-pressure ethylation of alkylbenzenes, leaching from PVC materials, 125-129 167-172 ethylation of tin compounds by sodium tetraethylborate, mutagenicity in mouse, 409-415 173-181, 393-397 organotin derivatives of N-benzoylglycylglycine, 385-391 sodium alginate as polyelectrolyte in colloid formation, single-step ethylation/extraction from seawater, 393-397 speciation in fish and sediment by GC with FPD, 399-407 261-268 Speciation structural chemistry of organotin carboxylates, 1-23 butyltin compounds in fish and sediments, 399-407 Spectroscopy MS of trialkylgallium thermal decomposition products on GaAs surfaces, 277-287 NMR, see NMR spectroscopy organometallic compounds for microelectronic devices, 214-215 organotin derivatives of N-benzoylglycylglycine, 385-391 photon emission from ruthenium-bipyridine complexes, 257-260 time-of-flight MS of methyl photofragments, 147-155 XPS of metallophthalocyanine sheet polymers, 203-206 XPS of thermal decomposition of silicon-containing aromatic polyimide film, 309-318 Strontium compounds low-temperature photodeposition of oxide films, 325-330 Structure organotin carboxylates, 1-23 Structure-activity relationships antitumour activity of diaryltin dichloride complexes, 439-441 toxicity of organotin compounds to Oryzias latipes, 91-97 toxicity of organotitanium complexes, 65-67 toxicity and total surface area of Group IVA organometallic compounds, 33-37 Superconducting oxides, 214

thermal degradation of organotin oxides and carboxylates, 159-165 toxicity of organotin compounds to Oryzias latipes, 91-97 toxicity and total surface area, 33-37 triorganotin fungicides, 131-134 UV photodissociation of tetramethyltin, 147-155 Titanium compounds non-linear optics of complexes, 361, 365 photolysis of iron pentacarbonyl adsorbed on titanium dioxide, 243-246 toxicity of organotitanium complexes to Columba livia, Total surface area of Group IVA organometallic compounds, 33-37 Toxicity genotoxic potential of triorganotin compounds, 409-415 organotin compounds, 91-97 organotitanium complexes, 65-67 relationship to total surface area, 33-37 Tungsten compounds non-linear optics of complexes, 356-358, 360, 371, 373 thin films of peroxopolytungstic acids, 295-301 Vanadium compounds dioxide film for microelectronic devices, 215 non-linear optics of complexes, 365, 367

polyurethane preparation, 135-138

439-441, 497-506

183-190

Yttrium compounds non-linear optics of complexes, 362

Zinc compounds non-linear optics of complexes, 358, 372-373 organozinc-oxygen catalysts for copolymerization and cyclization reactions, 191-194 physicochemical properties of dimethyl- and diethyl-zinc, 337-348 preparation of optoelectronic devices, 213-214 UV photodissociation of dimethylzinc, 147-155 Zirconium compounds zirconocene complexes for synthesis of dichalcogenated benzenic compounds, 479-486

